

09/462962

| | | | | | | | | | | | | | | | | |
|---------------|-----|---------------------|-----|--------------------|-----|--------------------|-----|------------------|-----|-------------------|-----|--------------|-----|-----|-----|-----|
| 254219 | 10 | MALDPEQMELEEG | 20 | KAGSGLRQYVLSKFEELQ | 30 | LIVNDKSNLRUQAORNEI | 40 | NAKVRLLREELQ | 50 | QEQSSVGEVVRANDKKV | 60 | LVKV | 70 | 80 | 90 | 100 |
| P47210 | | MALDPEQMELEEG | | KAGSGLRQYVLSKFEELQ | | LIVNDKSNLRUQAORNEI | | NAKVRLLREELQ | | QEQSSVGEVVRANDKKV | | LVKV | | | | |
| L38810 | | MALDPEQMELEEG | | KAGSGLRQYVLSKFEELQ | | LIVNDKSNLRUQAORNEI | | NAKVRLLREELQ | | QEQSSVGEVVRANDKKV | | LVKV | | | | |
| X66400 | | MALDPEQMELEEG | | KAGSGLRQYVLSKFEELQ | | LIVNDKSNLRUQAORNEI | | NAKVRLLREELQ | | QEQSSVGEVVRANDKKV | | LVKV | | | | |
| sel.pk0023.b5 | | MTAAVTSSNIVLET | | HESGKPYFEQXIQETELK | | IRSKTENGRLRQAORNAI | | DKVRFIKOELRLLQEP | | GSVGEVHEVSDKKV | | LVKV | | | | |
| cs1.pk0051.b7 | | MALVGVELKHAAGVPEANC | | AKPTKQEGELRHYYISNI | | HEHQILLRQKTHNLRLR | | LEAQRNDIANSVRML | | REELQLOEPSVGEVVM | | GKVKV | | | | |
| | | E | | HIHDLQIQIRQKTHNLRL | | LEAQRNDIANSVRML | | REELQLOEPSVGEVVM | | GKVKV | | LVKV | | | | |
| | | | | | | | | | | | | | | | | |
| 254219 | 110 | HPEGKFWVDVKNDIDIND | 120 | VPNCRVLRNDSYTHKIL | 130 | PKNKVDPLVSLMMWEK | 140 | VPDSTYEMIGGDKQI | 150 | KEVEIPELVKHP | 160 | FEALGIAQPKGV | 170 | 180 | 190 | 200 |
| P47210 | | HPEGKFWVDVKNDIDIND | | VPNCRVLRNDSYTHKIL | | PKNKVDPLVSLMMWEK | | VPDSTYEMIGGDKQI | | KEVEIPELVKHP | | FEALGIAQPKGV | | | | |
| L38810 | | HPEGKFWVDVKNDIDIND | | VPNCRVLRNDSYTHKIL | | PKNKVDPLVSLMMWEK | | VPDSTYEMIGGDKQI | | KEVEIPELVKHP | | FEALGIAQPKGV | | | | |
| X66400 | | HPEGKFWVDVKNDIDIND | | VPNCRVLRNDSYTHKIL | | PKNKVDPLVSLMMWEK | | VPDSTYEMIGGDKQI | | KEVEIPELVKHP | | FEALGIAQPKGV | | | | |
| sel.pk0023.b5 | | QPEGKYTVDAKDINVKD | | LKASQVCLRSDSYMLH | | KVLENAQDPLVSLMM | | WEKVPDSTYMWGLT | | QIKEIPELVKHP | | FEALGIAQPKGV | | | | |
| cs1.pk0051.b7 | | HPEGKYVVDIDKNIDIT | | KITPSTRVLRNDSYVH | | LVPLSKVDPLVNLMM | | WEKVPDSTYMWGLT | | QIKEIPELVKHP | | FEALGIAQPKGV | | | | |
| | | HPEGKYVVDIDKSIDIT | | KITPSTRVLRNDSYM | | HLILPSKVDPLVNLMM | | WEKVPDSTYMWGLT | | QIKEIPELVKHP | | FEALGIAQPKGV | | | | |
| | | | | | | | | | | | | | | | | |
| 254219 | 210 | GPPGIGKTLARAVAHHTD | 220 | CTFIRVSGSELVQKFI | 230 | GEARMVRELFVAREH | 240 | APSIIFMDEID | 250 | SIGSSRLEGGSG | 260 | GDSEVQRMELI | 270 | 280 | 290 | 300 |
| P47210 | | GPPGIGKTLARAVAHHTD | | CTFIRVSGSELVQKFI | | GEARMVRELFVAREH | | APSIIFMDEID | | SIGSSRLEGGSG | | GDSEVQRMELI | | | | |
| L38810 | | GPPGIGKTLARAVAHHTD | | CTFIRVSGSELVQKFI | | GEARMVRELFVAREH | | APSIIFMDEID | | SIGSSRLEGGSG | | GDSEVQRMELI | | | | |
| X66400 | | GPPGIGKTLARAVAHHTD | | CTFIRVSGSELVQKFI | | GEARMVRELFVAREH | | APSIIFMDEID | | SIGSSRLEGGSG | | GDSEVQRMELI | | | | |
| sel.pk0023.b5 | | GPPGIGKTLARAVAHHTD | | CTFIRVSGSELVQKFI | | GEARMVRELFVAREH | | APSIIFMDEID | | SIGSSRLEGGSG | | GDSEVQRMELI | | | | |
| cs1.pk0051.b7 | | GPPGIGKTLARAVAHHTD | | CTFIRVSGSELVQKFI | | GEARMVRELFVAREH | | APSIIFMDEID | | SIGSSRLEGGSG | | GDSEVQRMELI | | | | |
| | | | | | | | | | | | | | | | | |

FIG. 1

| | | | | | | | | | | | |
|---------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 254219 | IKVIMATNRIDILDSALIRPGRIDRKIEFFPPNEEARIDILKHSRKNLITRGINLRKIAETMPCASGAEVKGVCTEAGMYALRERRVHVHTQEDFEMAVA | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 |
| P47210 | IKVIMATNRIDILDSALIRPGRIDRKIEFFPPNEEARIDILKHSRKNLITRGINLRKIAETMPCASGAEVKGVCTEAGMYALRERRVHVHTQEDFEMAVA | | | | | | | | | | |
| L38810 | IKVIMATNRIDILDSALIRPGRIDRKIEFFPPNEEARIDILKHSRKNLITRGINLRKIAETMPCASGAEVKGVCTEAGMYALRERRVHVHTQEDFEMAVA | | | | | | | | | | |
| X66400 | IKVIMATNRIDILDSALIRPGRIDRKIEFFPPNEEARIDILKHSRKNLITRGINLRKIAETMPCASGAEVKGVCTEAGMYALRERRVHVHTQEDFEMAVA | | | | | | | | | | |
| se1.pk0023.b5 | IKVIMATNRIDILDSALIRPGRIDRKIEFFPPNEEARIDILKHSRKNLITRGINLRKIAETMPCASGAEVKGVCTEAGMYALRERRVHVHTQEDFEMAVA | | | | | | | | | | |
| cs1.pk0051.b7 | IKVIMATNRIDILDSALIRPGRIDRKIEFFPPNEEARIDILKHSRKNLITRGINLRKIAETMPCASGAEVKGVCTEAGMYALRERRVHVHTQEDFEMAVA | | | | | | | | | | |
| 254219 | KVMKQOSEKNWSIKKLWK | 410 | | | | | | | | | |
| P47210 | KVMKQOSEKNWSIKKLWK | | | | | | | | | | |
| L38810 | KVMKQOSEKNWSIKKLWK | | | | | | | | | | |
| X66400 | KVMKQOSEKNWSIKKLWK | | | | | | | | | | |
| se1.pk0023.b5 | KVMKQOSEKNWSIKKLWK | | | | | | | | | | |
| cs1.pk0051.b7 | KVMKQOSEKNWSIKKLWK | | | | | | | | | | |

FIG.1 (CONTINUED)

FIGURE 2

1 MATVAMDISKPTPAASGDEAAAAAKGRSGGGEGGLRQYYLQHIHDLQLQIRQKTHNLNRL
2 MALVGVELKHAAEGVPEANCSA....KPTKQGEGLRHYYSLNIHEHQLLLQKTHNLNRL
3 MALDGPEQMELEEG.....KAGSGLRQYYLSKIEELQLIVNDKSQNLRL
4 MATVAMDISKPTPVASGDEAAAAAKGRSGGGEGGLRQYYLQHIHDLQLQIRHKTHNLNRL

1 EAQRNDLNSRVMLREELQLLQEPGSYVGEVVKVMGKSKVLVKVHPEGKYVVDIDKSIDI
2 EAQRNDLNSRVMLREELQLLQEPGSYVGEVVKVMGKNKVLVKVHPEGKYVVDIDKNIDI
3 QAQRNELNAKVRLREELQLLQEQGSYVGEVVRAMDKKKVLVKVHPEGKFVVDVDKNIDI
4 EAQRNDLNSRVMLREDXXLLXEPGSYVGXVVKAWGNQRFVVKVNPEGKXXVDIN.....

1 TKITPSTRVALRND SYMLHLILPSKVDPLVNL MKVEKVPDSTYDMIGGLDQOIKEIKEVI
2 TKITPSTRVALRND SYVLHLVLPSKVDPLVNL MKVEKVPDSTYDMIGGLDQOIKEIKEVI
3 NDVTPNCRVALRND SYTLHKILPNKVDPLVSLMMVEKVPDSTYEMIGGLDKOIKEIKEVI
4

1 ELPIKHPELFESLGIAQPKGVLLYGPPGTGKTLLARAVAHHTDCTFIRVSGSELVQKYIG
2 ELPIKHPELFESLGIAQPKGVLLYGPPGTGKTLLARAVAHHTDCTFIRVSGSELVQKYIG
3 ELPVKHPELFELGIAQPKGVLLYGPPGTGKTLLARAVAHHTDCTFIRVSGSELVQKFIG
4

1 EGSRMVRELFVMAREHAPSIIFMDEIDSIGSARMESGTGNGDSEVQRTMLELLNQLDGFE
2 EGSRMVRELFVMAREHAPSIIFMDEIDSIGSARMESGSGNGDSEVQRTMLELLNQLDGFE
3 EGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSG.GDSEVQRTMLELLNQLDGFE
4

1 ASNKIKVLMATNRIDILDQALLRPGRIDRKIEFPNPNEDSRFDILKIHSRKMNLMRGIDL
2 ASNKIKVLMATNRIDILDQALLRPGRIDRKIEFPTPNEESRLDILKIHSRRMNLMRGIDL
3 ATKNIKVIMATNRIDILDSALLRPGRIDRKIEFPNPNEEARLDILKIHSRKMNLTRGINL
4

1 KKIAEKMNGASGAELKAVCTEAGMFALRERRVHVTQEDFEMAVAKVMKKDTEKNMSLRKL
2 KKIAEKMNGASGAELKAVCTEAGMFALRERRVHVTQEDFEMAVAKVMKKETEKNNMSLRKL
3 RKIAELMPGASGAEVKGVCTEAGMYALRERRVHVTQEDFEMAVAKVMQKDEKNMSIKKL
4

1 WK
2 WK
3 WK
4 ..